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(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/800,130
Filing Date	March 12, 2004
First Named Inventor	Yoshihiro Kobayashi
Art Unit	2856
Examiner Name	Chapman Jr., John E
Attorney Docket Number	9319S-000733

ENCLOSURES (check all that apply)					
Fee Transmittal F	orm	☐ Drawing(s)	-		er Allowance Communication to chnology Center (TC)
Fee Attached		Licensing-re	elated Papers		peal Communication to Board of peals and Interferences
Amendment / Rep	bly	Petition			peal Communication to TC peal Notice, Brief, Reply Brief)
After Final		Petition to 0	I I Dro		prietary Information
Affidavits/dec	laration(s)		ttorney, Revocation Correspondence Address	☐ Sta	tus Letter
Extension of Time	Request	Terminal Di	sclaimer		ner Enclosure(s) ase identify below):
Express Abandonment Request		Request for Refund CD, Number of CD(s)			Form 1449 w/copies of non-US cited references; return post card
Information Disclosure Statement					
Certified Copy of Priority Document(s)		Remarks			
Response to Miss Incomplete Applic			1	1	
Response to Missing Parts under 37 CFR 1.52 or 1.53					
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT					
Firm or Individual name	Harness, Dickey & Pierce, P.L.C.		Attorney Name Bryant E. Wade		Reg. No. 40,344
Signature	Sant.	Ulas	2		
Date	May 24, 2006				
CERTIFICATE OF TRANSMISSION/MAILING					

Signature Date May 24, 2006 This collection of information is presented by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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Bryant E-Wade

Typed or printed name

Complete if Known **FEE TRANSMITTAL** 10/800,130 **Application Number** for FY 2006 Filing Date March 12, 2004 First Named Inventor Yoshihiro Kobayashi ctive 2/8/2006. Patent fees are subject to annual revision. **Examiner Name** Chapman Jr., John E plicant claims small entity status. See 37 CFR 1.27 Art Unit 02105 000733

TOTAL AMOUNT OF PAYMENT (\$) 180			Atto	Attomey Docket No. 93195-000733						
METHOD OF PAYMENT (check all that apply)			\neg			FEE C	ALCULATION (co	intinued)		
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2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE			1807	50	1807	50	-	under 37 CFR 1.17 (q)	
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Signature			1/120	//				Date	May 24, 2006	





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

oplication No.:

10/800,130

Filing Date:

March 12, 2004

Applicant:

Yoshihiro Kobayashi

Group Art Unit:

2856

Examiner:

CHAPMAN Jr., John E

Title:

MEASURING METHOD, MEASUREMENT-SIGNAL OUTPUT CIRCUIT, AND MEASURING APPARATUS

Attorney Docket:

9319S-000733

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

١. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

> 05/26/2006 HNGUYEN1 00000089 503213 10800139 01 FC:1806

189.09 DA

11. **COPIES**

> A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

> B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were

previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Filing Date

U.S. Serial Number

	United States. A copy of Examiner's information. report are listed on the attand for listing on any pate Search report was from these references should he	f the International Se The documents list tached Form 1449 fo ent resulting from this the US, EPO, or JP nave been supplied to	y of the National Phase in the earch Report is attached for the ed on the International Search r consideration by the Examine application. If the Internationa O search authorities, copies of the USPTO under the trilateral the above-identified application
Ш.	CONCISE EXPLANATION	N OF THE RELEVAN	ICE (check <u>at least</u> one box)
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	C. The following add consideration:	litional information i	s provided for the Examiner's
IV.	CROSS REFERENCE TO	RELATED APPLIC	ATION(S)
	contain(s) subject matter	that may be related ication(s) to the Ex	owing co-pending application(s to the present application. By aminer's attention, Applicant(s ns of 35 U.S.C. § 122.
	Serial No.	Filing Date	Inventor(s)

THIS IDS IS BEING FILED UNDER A. 37 C.F.R. § 1.97(b): (check only one box) 1. Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37) C.F.R. § 1.97(b)(1)). No fee or certification is required. 2. within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required. 3. Defore the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p). 4. Defore the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required. B. 37 C.F.R. § 1.97(c): (check only one box) before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution. 1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). 2. See the certification below. No fee is required. C. X 37 C.F.R. § 1.97(d): after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee. 1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) The undersigned hereby certifies that:

A. \boxtimes each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application

VI.

V.

not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application. and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. STATEMENT UNDER 37 C.F.R. 1.704(d) The undersigned hereby states that: item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS. PAYMENT OF FEES (check only one box) A. A check in the amount of \$180.00 is enclosed for the above identified fee.

B. \boxtimes Please charge Deposit Account No. 50-3213 in the amount of \$180.00 for the above-indicated fee.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-3213 (Epson R&D).

VII.

VIII.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 50-3213 (Epson R&D).

Respectfully submitted,

Dated: May 24, 2006

By ant E. Wade Reg. No. 40,344

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

GGS/BEW/slm

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HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 1

SERIAL NO.		
10/800,130		
GROUP		
2856		
	10/800,130 GROUP	

U.S. P	U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date	
1.		3,953,844	4/27/1976	Barr et al			
2.		4, 618, 014	10/21/1986	Kobayashi			
3.		2003/0033876 A1	2/20/2003	Roukes et al			

FORE	IGN PATEN	IT DOCUMENTS	3				
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translati Yes	on * No
1.							

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials				
1.		Bruschi et al, "Inexpensive but accurate driving circuits for quartz crystal microbalances", REVIEW OF SCIENTIFIC INSTRUMENTS, AMERICAN INSTITUTE OF PHYSICS, US, Vol. 70, No. 1, Jan. 1999, pages 153-157.			
2.		Patent Abstracts of Japan re: Publication No. 07043284.			
3.		Communication from European Patent Office re: related application.			

*One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at www.ipo.go.ip

Examiner:	Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.